RTCA Special Committee 209

ATCRBS / Mode S Transponder MOPS Maintenance

Meeting #7

In Joint Session with Eurocae WG-49

Eurocontrol Headquarters, Brussels 20 – 24 August 2007

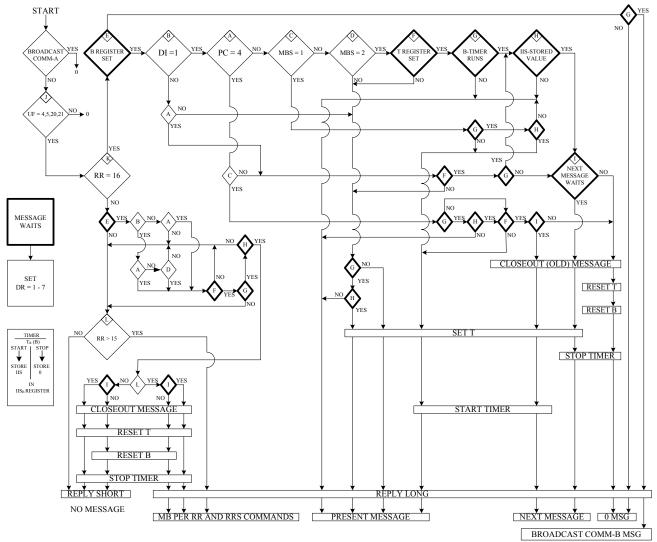
Proposed Corrections to DO-181D Figure 2-19

Presented by: Robert Saffell, Rockwell Collins

SUMMARY

During Meeting #1 of SC-209 Working Group 1, Working Papers ModeS-WP01-05 and WP01-06 were presented by John Van Dongen for proposed changes to Comm-B test procedures and a modification of Figure 2-19. This Working Paper presents a proposed change to Figure 2-19 as a result of investigation performed on Figure 2-19 all the way back to DO-181A, Change 2, in order to resolve issues discussed during WG#1 Meeting #1 and to stabilize Figure 2-19.

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NOTE: 1. BOLD INDICATE TRANSPONDER STATES.

- 2. THE DECISION IN DIAMOND "K" IS "YES" ONLY IF RR=16 AND EITHER DI≠7, OR DI=7 AND RRS=0
- "0" INDICATES TERMINATION OF THE PROCESS.
- 4. THE T-REGISTER (FIG. 2-23) INDICATES WHETHER THE MESSAGE HAS BEEN READ AT LEAST ONCE.
- 5. THE T-REGISTER IS RESET WHEN THE B-TIMER EXPIRES.
- 6. THE B-TIMER DOES NOT EXPIRE FOR A MULTISITE-DIRECTED COMM-B MESSAGE
- 7. ADDITIONAL PROCESSING FOR MULTISITE-DIRECTED COMM-B TRANSMISSIONS IS DEFINED IN 2.2.19.2.3.2 8. IIS IS ONLY DEFINED IF DI=0,1 OR 7.
- 9. THIS FIGURE DOES NOT INCLUDE THE ENHANCED DATA LINK PROTOCOL FEATURES.

Figure 2-19:

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